

FIG. ,

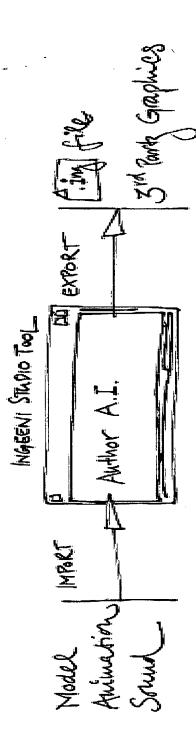
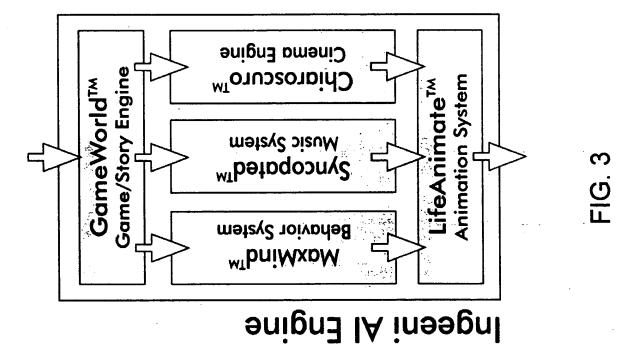


FIG. 2



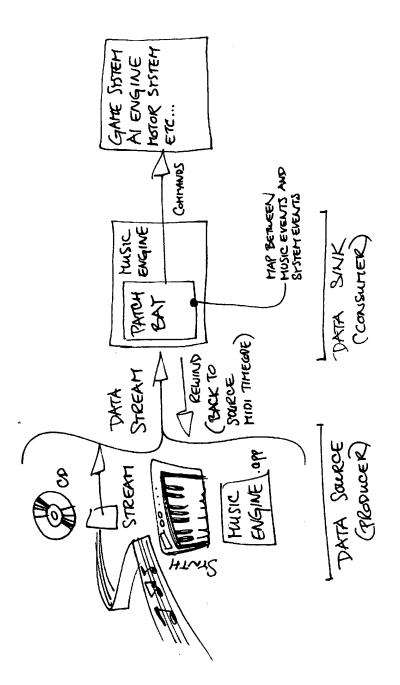
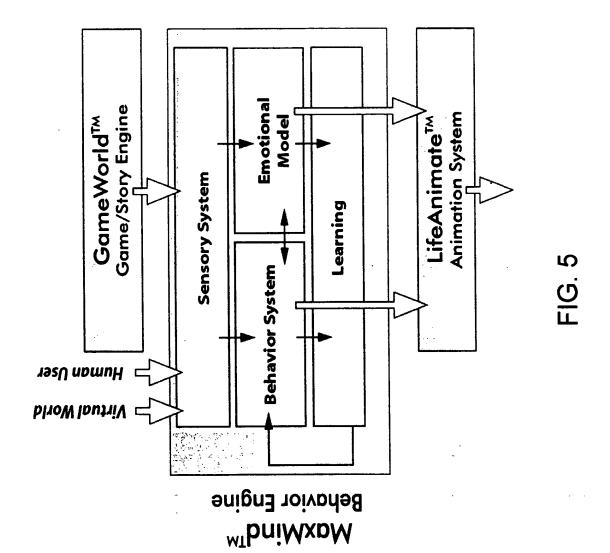
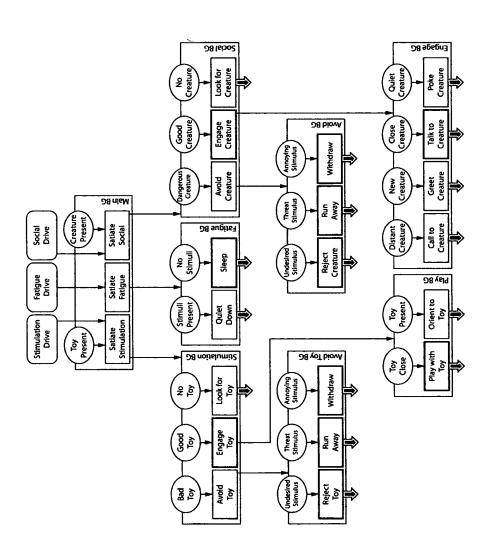


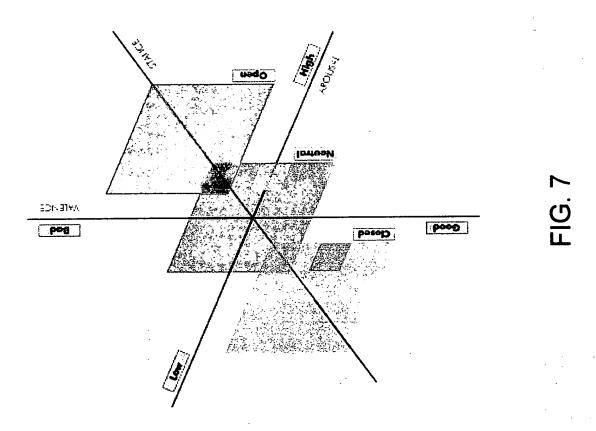
FIG. 4

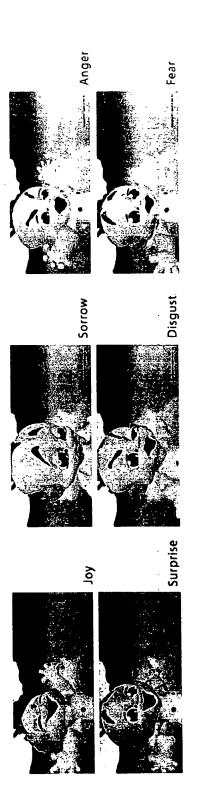




ø

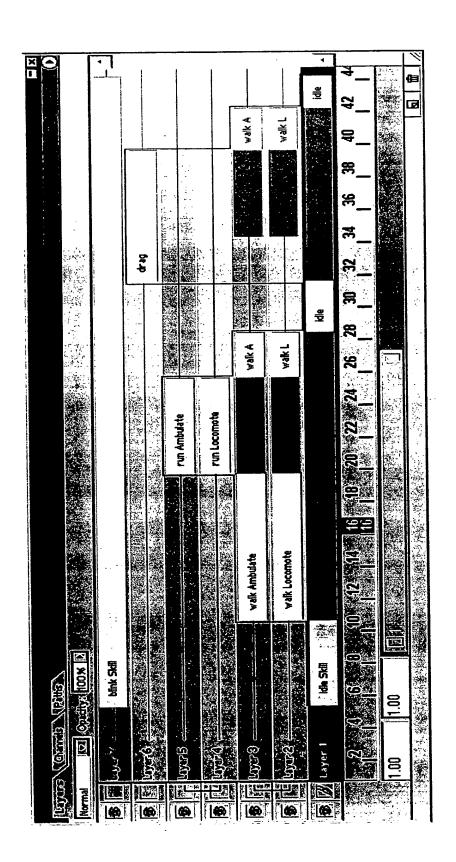
FIG. 6





7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	fl motion	Rosulting hohmior
I rigger conainon	LIMONON	Commiss Someon
Difficulty in achieving goal	Anger	Complain
Presence of an undesired stimulus	Disgust	Withdraw
Threatening, overwhelming stimulus	Fear	Escape
Success in achieving goal	Joy	Laugh, display pleasure
Prolonged absence of desired stimulus	Sorrow	Display sorrow
A sudden stimulus	Surprise	Startle response

FIG. 8



				
Animation Composite	Animation channel, or animation curve, or Degree of Freedom (DOF), or a floating point number changing over time.	An animation, a collection of animation channels over time, a Skill.	An animation in a layer can be sparse; it does not need to "touch" every channel. Empty animation channels correspond to transparent pixels.	Applies to animation data as well, determines the type and percentage contribution of each layer.
Image Composite (existing metaphor)	Pixel	Layer	Transparency	Blend mode

FIG. 10

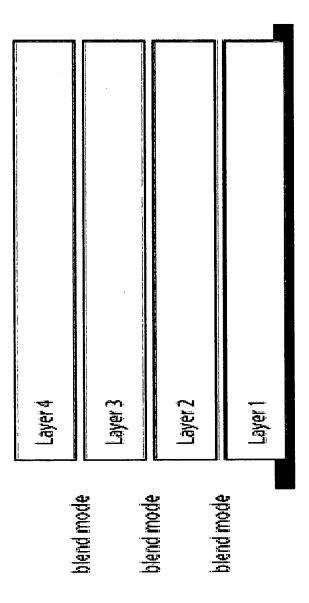


FIG. 11

FIG. 1;

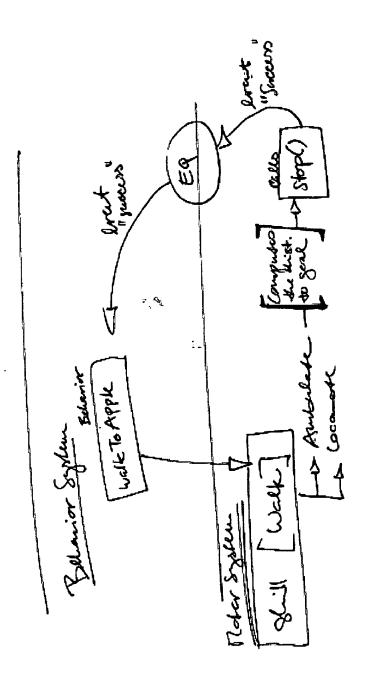
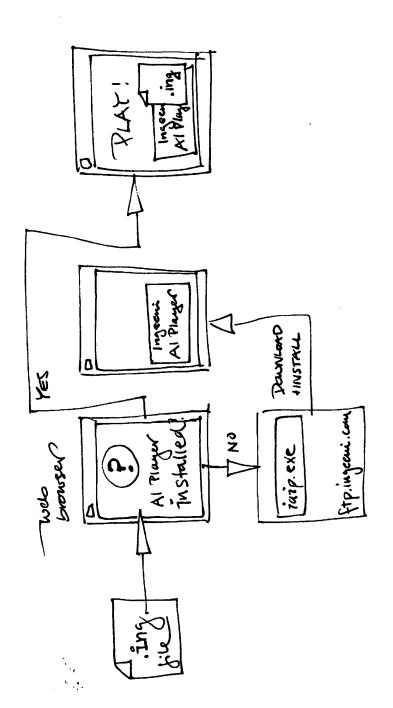


FIG. 13



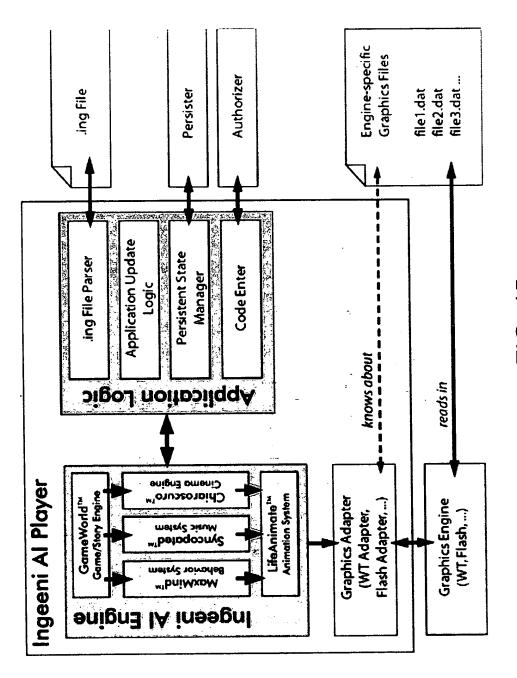
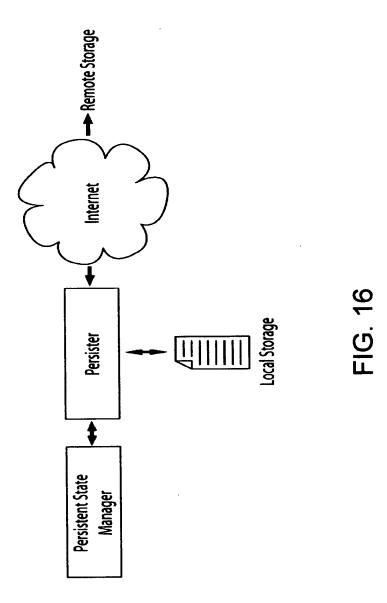


FIG. 15



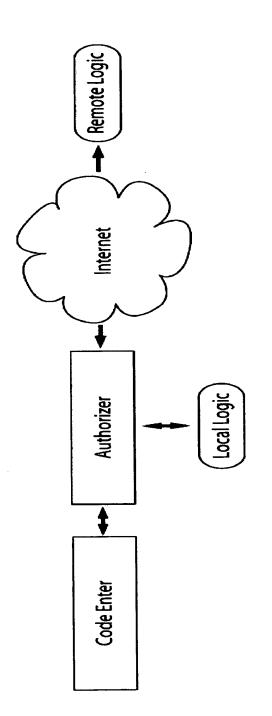
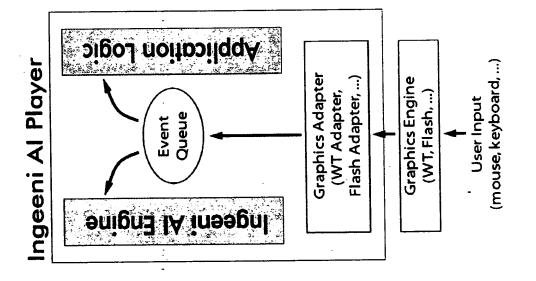


FIG. 17



code enter version update core library Flash Adapter

file logic

WildTangent Adapter

FILE LAYER

ADAPTER LAYER

LOGIC LAYER

APPLICATION LAYER

Code Layers

update loop

Al logic

CORE LAYER

graph library

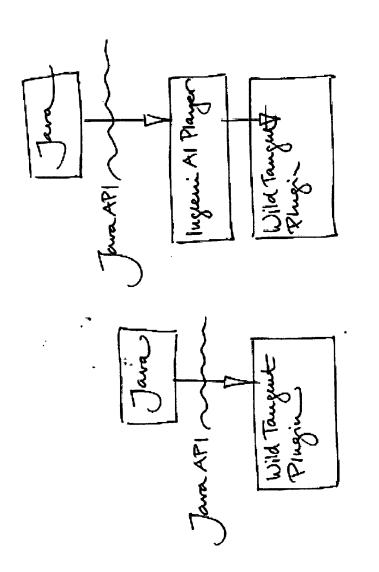


FIG. 20

OS X	Internet Explorer	Netscape	Safari	
Windows	Internet Explorer	Netscape		

FIG. 21

FIG. 22

Purpose	3D models	3D models	3D models, animations	3D models, animations	3D models, animations	Sound/music	Sound/music	Image	
Owner/3 rd Party	AutoDesk	Alias Wavefront	Alias Wavefront	Alias Wavefront	Discreet	•			
Name	DXF	AW Object	Maya Binary	Maya ASCII	3D Studio MAX	Wave	MIDI	JPEG	
Suffix	Jxb.	jdo.	qm.	.ma	.max	.wav	bim.	gdį.	

FIG. 23

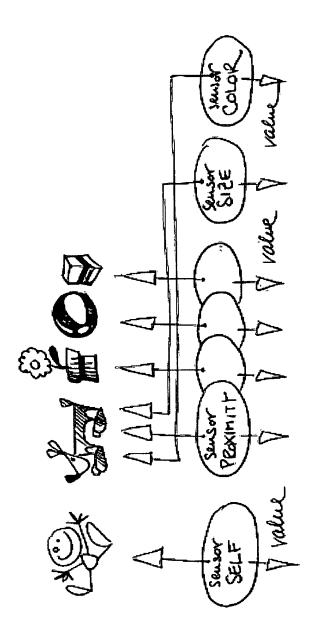


FIG. 24

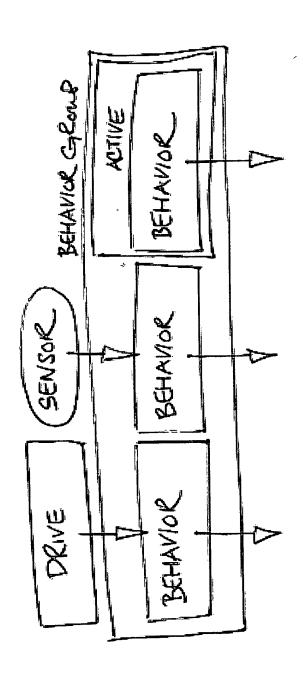


FIG. 25

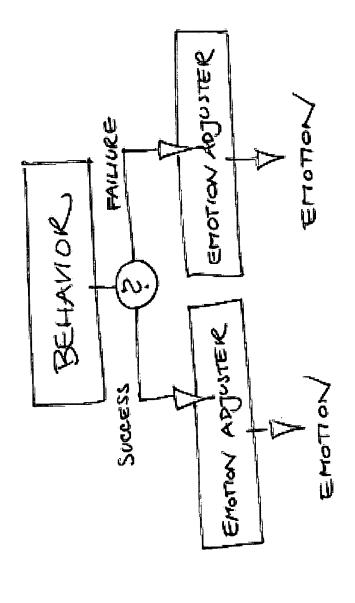


FIG. 26

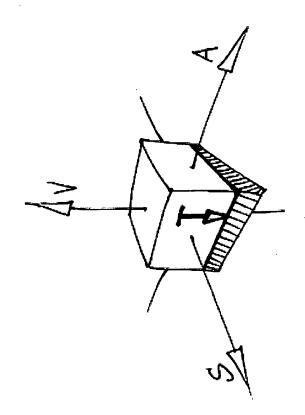


FIG. 27

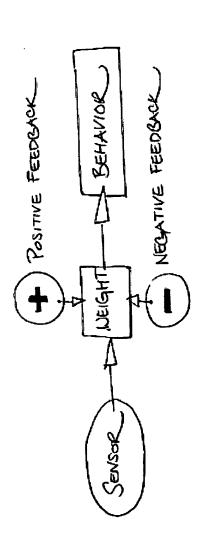


FIG. 28

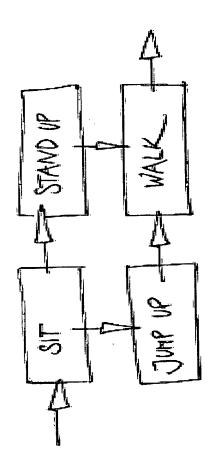


FIG. 29

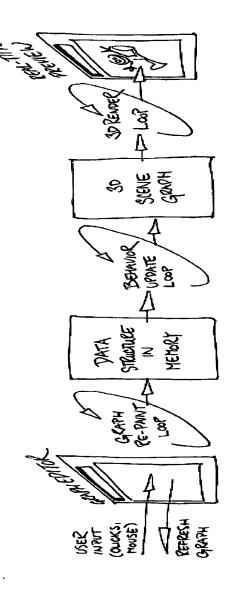
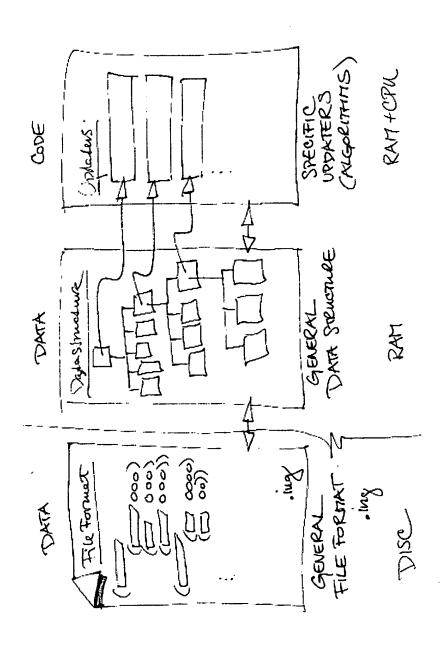


FIG. 30

FIG. 31



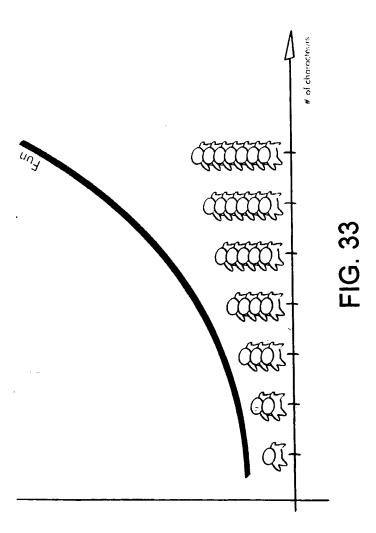
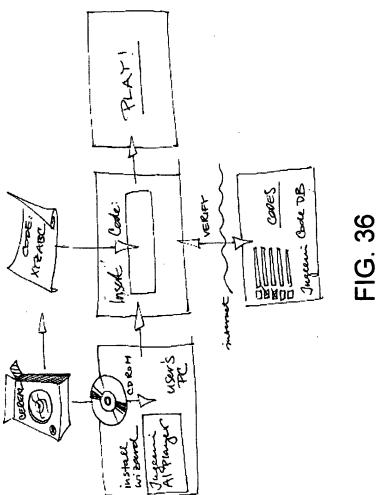


FIG. 34

lum	Category	Code Module / Library	Functionality	Version
1	Engine	Story Engine	Imposes at op-level story on the open-ended	V2.0
			interactions	
2	Engine	Behavior Engine	Implements Sensor, Behavior, Emotion and	V1.0
			Learning subsystems	
3	Engine	Music Engine	Plays out emotionally-colored music in response	V1.0
			to the user's and characters' actions	
4	Engine	Cinem a Engine	Controls the autonomous camera and lighting of	V1.0
			the scene	
5	Engine	Animation Engine	Interprets the behavior system commands based	V1.0
			on the character's motor skills	
6	Data	Al Graph Data Structure	Holds all behavior, emotion, motor and learning-	O. M
			related data for all characters, world and camera	
7_	Data	ing File Specification	written document (not code)	V1.0
8_	Data	ing Parser	read/write functionality for inq file form at	V1.0
9	Player	Application Main	Conains the Player main loop	V1.0
10	Player	Application Update	Takes care of Versioning of the Player itlest, looks	V1.0
			for availble updates and manages them	
11	Player	Persistent State Manager	Keeps track of the state of the scene as changed	V1.0
			by the user, talks to Persister	
12	Player	Code Enter	Allows the user to enter PowerCodes; talks to	V1.0
			Authorizer	
13	Player	Graphics Adapter WildTangent	Profides an interface between animation engine	∀ 1.0
		•	and WildTangent graphics	
14	Player	Graphics Adapter 2D	Profides an interface between animation engine	V2.0
	•		and a possible 2D graphics solution	
17	Player	Java API V1.0 Specification	written document (not code)	V2.0
18	Player	Java API V1.0 Implementation	Defines an API to accessing the Engine's	V2.0
			functionality from Java	
15	External	Persister	A module responsible for exchange between	V1.0
			Persistent State Manager and a storage device	
16	External	Authorizer	A module responsible for exchange between	V1.0
			Code Enter and a code verifier of choice	
18	Tool	Application Main	Conains the Tool main loop	V2.0
19	Tool	ing Parser	read/write functionality for .inq (redesigned)	V2.0
20	Tool	Importer WildTangent	A parser for WildTangent's 3D data files, will have	V2.0
		•	to cooperate directly with the company	
21	Tool	Importer .mb	A parser for Maya proprietary data files, we'll have	V3.0
			to cooperate directly with the company	
22	Tool	Importer max	A parser for 3D Studio MAX proprietary data files;	V3. 0
			we'll have to cooperate directly with the company	
23	Tool	other Importers	based on the developers' requirements	V3.0-
24	Tool	Graph Libraries	General software libraries for creating,	V2.0
			manipulating and displaying graph structures	
25	Tool	GUI Sensor	GUI for developing and editing Sensor networks	V2.0
26		GUI Behavior	GUI for developing and editing Behavior networks	V2.0
27		GUI Emotion	GUI for developing and editing Em ction networks	V2.0
28		GUI Learning	GUI for developing and editing Learning networks	V2.0
29		GUI Motor	GUI for developing and editing Motor networks	V2.0
		3D Scene Graph	A 3D scene graph for the real-time preview	V2.0
		3D Real-Tim e Graphics	A 3D real-time graphics engine; either licensed	V2.
30	Tool			
	Tool	ob Roar Fill of Epinos	3rd party or developed in-house	
30		Exporter WildTangent	3rd party or developed in-house An exporter for WildTangent's data files; will have to cooperate directly with the company	V2.0



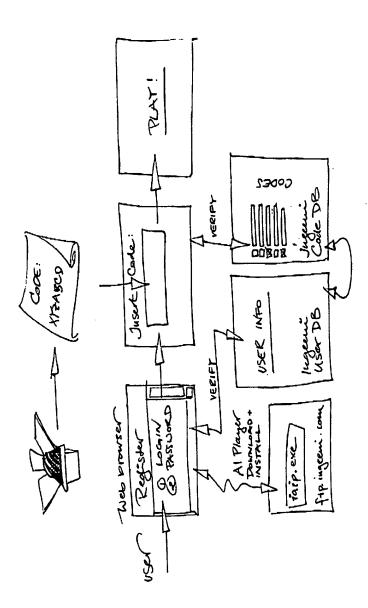


FIG. 37

FIG. 38

